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Application Number	10/518,003
Filing Date	March 14, 2005
First Named Inventor	Daniel S. MARTIN
Art Unit	1623
Examiner Name	Lawrence E. Crane
Attorney Docket Number	636-C-PCT-US

U. S. PATENT DOCUMENTS

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/L.C./	3	PCT International Preliminary Examination Report for SLOAN KETTERING INSTITUTE FOR CANCER RESEARCH, PCT/US01/46886 (Atty. Dkt. #636-A-PCT), "Treatment of cancer by reduction of intracellular energy and pyrimidines," Filed December 4, 2001, Dated July 25, 2003.	
/L.C./	4	Amarante-Mendes, G.P., Finucane, D.M., Martin, S.J., Cotter, T.G., Salvesen, G.S. and Green, D.R., 1998, "Anti-apoptotic oncogenes prevent caspase-dependent and independent commitment for cell death," Cell Death Differ., 5:298-306.	
/L.C./	5	Batova, A., Diccianni, M.B., Omura, Minamisawa, M., Yu, J., Carrera, C.J., Bridgeman, L.J., Kung, F.H., Pullen, J., Amyulong, M.D. and Yu, A.L., 1999, Use of alanosine as a methyladenosine phosphorylase - selective therapy for T-cell acute lymphoblastic leukemia in vitro," Cancer Res., 59:1492-1497.	
/L.C./	6	Berger, N.A., and Berger, S.J., 1986, "Metabolic consequences of DNA damage: The role of poly (ADP-ribose) polymerase as mediator of the suicide response," In: L. Grossman, A.C. Upton, (eds.) Mechanisms of DNA Damage and Repair, pp. 357-363. New York: Plenum Publishing Corporation.	
/L.C./	7	Berns, A., May 2002, "Senescence: A companion in chemotherapy?" Cancer Cell, 309-311.	
/L.C./	8	Bertino, J.R., 1990, "Leucovorin rescue revisited: Editorial," J. Clin. Oncol., 8 (2):193-195.	
/L.C./	9	Bissett, D., Mcleod, H.L., Sheedy, B., Collier, M., Pithavala, Y., Paradiso, L., Pitsiladas, M. and Cassidy, J., 2001, "Phase 1 dose-escalation and pharmacokinetic study of a novel folate analogue A G 2034," Br. J. Cancer, 84:308-312.	
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NON PATENT LITERATURE DOCUMENTS			
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/L.C./	13	Britten, C.D., Rowinsky, E.K., Baker, S.D., Weiss, G.R., Smith, L., Staphenson, J., Rothenberg, M., Smetzer, L., Cramer, J., Collins, W., Von Hoff, D.D., and Eckhardt, S.G., 2000, "A Phase 1 and pharmacokinetic study of the mitochondrial-specific chodacyanine dye analog MKT 011," Clin. Cancer Res., 6:42-49.	
/L.C./	14	Bronder, J.L. and Moran, R.G., 2002, "Antifolates targeting purine synthesis allow entry of tumor cells into S phase regardless of p53 function," Cancer Res., 62:5236-5241.	
/L.C./	15	Budiardjo, H., Walker, D.L., Svingen, P.A., Buckwalter, C.A., Desnoyers, S., Eckdahl, S., Shah, G.M., Poirier, G.G., Reid, J.M., Ames, M.M., and Kaufmann, S.H., 1998, "6-Aminonicotinamide sensitizes human tumor cell lines to cisplatin," Clinical Cancer Research, 4:117-30.	
/L.C./	16	Cahill, D.P., Kinzler, K.W., Vogelstein, B. and Lengauer, C., 1999, "Genetic instability and Darwinian selection tumors," Trends in Cell Biology, 57-60.	
/L.C./	17	Carson, D.A., Seto, S., Wasson, B., and Carrera, C., 1986, "DNA strand breaks, NAD metabolism, programmed cell death," Exp. Cell. Res., 164:273-281.	
/L.C./	18	Chatterjee, S., Hirota, H., Belfi, C.A., Berger, S.J. and Berger, N.A., 1997, "Hypersensitivity to DNA cross-linking agents associated with up-regulation of glucose-regulated stress protein GRP 78," Cancer Res., 57:5112-5116.	
/L.C./	19	Chen, Z.H., Zhang, H. and Savarese, T.M., 1996, "Gene deletion chemoselectivity: codeletion of the genes for p16INK4, methylthioadenosine phosphorylase, and the α - and β -interferons in human pancreatic cell carcinoma lines and its implications for chemotherapy," Cancer Res., 56:1083-1090.	
/L.C./	20	Constantini, P., Chernyak, B.V., Petronilli, V. and Bernardi, P., 1996, "Modulation of the mitochondrial permeability transition pore by pyridine nucleotides and dithiol oxidation at two separate sites," J. Biol. Chem., 271:6746-6751.	
/L.C./	21	Cory, A.H., and Cory, J.G., 1994, "Use of nucleoside Kinase deficient mouse leukemia L1210 cell lines to determine metabolic routes of activation of antitumor nucleoside analogs," Adv. Enzyme Regul., 34:1-12.	
/L.C./	22	Cotter, T.G., Lenon, S.V., Glynn, J.G. and Martin, S.J., 1990, "Cell death via apoptosis and its relationship to growth, development and differentiation of both tumor and normal cells," Anticancer Res., 10:1153-1160.	

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/L.C./	23	Dang, C.V. and Semenza, G.L., 1999, "Oncogenic alterations metabolism," Trends Biochem. Sci., 24:68-92.	
/L.C./	24	Dietrich, L.S., Kaplan, L., and Friedland, I.M., 1958, "Pyridine nucleotide metabolism: mechanism of action of the niacin antagonist, 6-aminonicotinamide," J. Biol. Chem. 233:964-968.	
/L.C./	25	Droin, N., Beauchemin, M., Solary, E. and Bertrand, R., 2000, "Identification of a caspase-2 isoform that behaves as endogenous inhibitor of the caspase cascade," Cancer Res., 60:7039-7047.	
/L.C./	26	Eguchi, Y., Shimizu, S., and Tsujimoto, Y., 1997, "Intracellular ATP levels determine cell fate by apoptosis or necrosis," Cancer Res., 57:1835-1840.	
/L.C./	27	Evtodienko, Y.V., Teplova, V.V., Sidosh, S.S., Ichas, F. and Mazal, J.P., 1996, "Microtubule-active drugs suppress the closure of the permeability transition pore in tumor mitochondria," FEBS Lett., 393:86-88.	
/L.C./	28	Fitchen, J.H., Riscoe, M.K., Dana, B.W., Lawrence, H.J. and Ferro, A.J., 1986, "Methylthioadenosine phosphorylase deficiency in human leukemias and solid tumors," Cancer Res., 46:5409-5412.	
/L.C./	29	Formigli, L., Papucci, L., Tani, A., Schivone, N., Tempestine, A., Orlandini, G.E., Capaccioli, S. and Orlandini, S.Z., 2000, "Aponecrosis: Morphological and biochemical exploration of a syncletic process of cell death sharing apoptosis and necrosis," J. Cell Physiol. 182:41-49.	
/L.C./	30	Forrester, H.B., Albright, N., Ling, C.C. and Dewey, W.C., 2000, "Computerized video time-lapse analysis of apoptosis of REC: Myc cells X-radiated in different phases of the cell cycle," Radiat. Res., 154:625-639.	
/L.C./	31	Gaal, J.C., Smith, K.R., and Pearson, C.K., 1987, "Cellular euthanasia mediated by a nuclear enzyme: A central role for nuclear ADP-ribosylation in cellular metabolism," Trends Biochem. Sci., 12:129-130.	
/L.C./	32	Gewirtz, D.A., 1999, "A critical evaluation of mechanisms of action proposed for the antitumor effects of the anthracycline antibiotics adriamycin and daunorubicin," Biochem. Pharm., 57:727-741.	

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/L.C./	33	Goldin, A., Kendetti, J.M., MacDonald, J.S., Muggia, F., Henney, J. and DeVita, V.T., 1981, "Current results of the screening program at the Division of Cancer Treatment, National Cancer Institute," Eur. J. Cancer, 17:129.	
/L.C./	34	Green, D.R., 1998, "Apoptotic pathways: The roads to ruin," Cell, 94:695-698.	
/L.C./	35	Grindey, G.B., Lowe, J.K., Divekey, A.Y., and Halaka, M.T., 1976, "Potentiation by guanine nucleosides of the growth-inhibitory effects of adenosine analogues on L1210 and Sarcoma 180 cells in culture," Cancer Res., 36:379-383.	
/L.C./	36	Haimovitz-Friedman, A., Kan, C.C., Ehleiter, D., Persaud, R.S., McLoughlin, M., Fuks, Z. and Kolesnick, R.N., 1994, "Ionizing radiation acts on cellular membranes to generate ceramide and initiate apoptosis," J.Exp. Med., 180:525-535.	
/L.C./	37	Herceg, Z. and Wang, Z.Q., 1999, "Failure of poly (ADP/ribose) polymerase cleavage by caspases leads to induction of necrosis and enhanced apoptosis," Mol. Cell Biol., 19:5124-5133.	
/L.C./	38	Herken, H., Lange, K. and Kolbe, H., 1969, "Brain disorder induced by pharmacological blockage of the pentose phosphate pathway," Biochem. Biophys. Res. Commun., 36:93-100.	
/L.C./	39	Herter, F., Weissman, S.G., Thompson, H.G. et al., 1961, "Clinical experience with 6-aminonicotinamide," Cancer Res. 21:31-37.	
/L.C./	40	Hickman, J.A., 1992, "Apoptosis induced by anticancer drugs," Cancer Metast. Rev., 11:121-139.	
/L.C./	41	Hunting, D., Gowans, B., and Henderson, J.F., 1985, "Effect of 6-AN on cell growth, poly (ADP-ribose) synthesis and nucleotide metabolism," Biochem. Pharmacol., 34:3999-4003.	
/L.C./	42	Janicke, R.V., Sprengart, M.L., Wati, M.R. and Porter, A.G., 1998, "Caspase-3 is required for DNA fragmentation and morphological changes associated with apoptosis," J. Biol. Chem., 273:9357-9360.	

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/L.C./	43	Janicke, R.U., Ng, P., Sprengart, M.L., and Porter, A.G., 1998, "Caspase-3 is required for alpha-fodrin cleavage but dispensable for cleavage of other death substrates in apoptosis," J. Biol. Chem., 273:15540-5.	
/L.C./	44	Jones, M., 1980, "Pyrimidine nucleotide biosynthesis in animals: Genes, enzymes and regulation of UMP synthesis," Ann. Rev. Biochem., 49:253-279.	
/L.C./	45	Kamatani, N., Nelson, Rees, W.A. and Carson, D.A., 1981, "Selective killing of human malignant cell lines deficient in methylthioadenosine phosphorylase, a purine metabolic enzyme," Proc. Natl. Acad. Sci. USA, 78:1219-1223.	
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/L.C./	47	Kerr, J.F.R., Wyllie, A.H., and Currie, A.R., 1972, "Apoptosis: a basic biological phenomenon with wide-ranging implications in tissue kinetics," Brit. J. Cancer, 26:239-257.	
/L.C./	48	King, M.P., and Attardi, G., 1989, "Human cells lacking mtDNA: Repopulation with exogenous mitochondria by complementation," Science, 246:500-503.	
/L.C./	49	King, K.L. and Cidlowski, J.A., 1995, "Cell cycle and apoptosis: Common pathways to life and death," J. Cell Biochem., 58:175-180.	
/L.C./	50	Ko et al., 2004, "Advanced cancers: eradication in all cases using 3-bromopyruvate therapy to deplete ATP," Biochemical and Biophysical Research Communications, 269-275.	
/L.C./	51	Kroemer, G., 1997, "Mitochondrial implication in apoptosis. Towards an endosymbiont hypothesis of apoptosis evolution," Cell Death Differ., 4:443-456.	
/L.C./	52	Kroemer, G., Zamzami, N., and Susin, S.A., 1997, "Mitochondrial control of apoptosis," Immunol. Today, 18:44-51.	

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/L.C./	53	Krug, L.M., Ng, K.K., Kris, M.G., Miller, V.A., Tong, W., Heelan, R.J., Leon, L., Leung, D., Kelly, J., Grant, S.C. and Sirotnak, F.M., 2000, "Phase I and pharmacokinetic study of 10-propargyl-10-deazaaminopterin a new antifolate," Clin. Cancer Res., 3493-3498.	
/L.C./	54	Kuida, K., Hayder, T.F., Kuan, C.Y., Gu, Y., Taya, C., Karasuyama, H., Su, M.S.S., Radic, P. and Flavell, R.A., 1998, "Reduced apoptosis and cytochrome c-mediated caspase activation in mice lacking caspase activation in mice lacking caspase 9," Cell, 94:325-337.	
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/L.C./	56	Li, H., Zhu, H., Xu, C.J., 1998, "Cleavage of BID by caspase 8 mediates the mitochondrial damage in the Fas pathway of apoptosis," Cell, 94:491-501.	
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/L.C./	59	Lowe, S.W., 1995, "Cancer therapy and p53," Curr. Opin. Oncol., 7:547-553.	
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		Filing Date	March 14, 2005
		First Named Inventor	Daniel S. MARTIN
		Art Unit	1623
		Examiner Name	Lawrence E. Crane
Sheet 8	of 12	Attorney Docket Number	636-C-PCT-US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/L.C./	63	Martin, D., Matei, C., and Koutcher, J., 2000, "Marked enhancement of radiotherapy-induced tumor regression by an NAD antagonist, 6-aminonicotinamide (6-AN)," Proc. Am. Assoc. Cancer Res., 41:283 (Abstract 1800).	
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/L.C./	67	Nicotera, P. and Leist, M., 1997, "Mitochondrial signals and energy requirement in cell death," Cell Death Differ, 4:516.	
/L.C./	68	Nobori, T., Karras, J.G., Della Ragione, F., Waltz, T.Z., Chen P.P. and Carson, D.A., 1991, "Absence of methylthioadenosine phosphorylase in human gliomas," Cancer Res., 51:3193-3197.	
/L.C./	69	Nobori, T., Szinai, I., Amox, D., Parker, B., Olopade, O.I., Buchhagen, D.L. and Carson, D.A., 1993, "Methylthioadenosine phosphorylase deficiency in human non-small cell lung cancers," Cancer Res., 53:1098-1101.	
/L.C./	70	Presta, M., Rusunati, M., Belleri, M., Morbedelli, L., Ziche, M. and Ribatti, D., 1999, "Purine analogue 6-methylmercaptopurine riboside inhibits early and late phases of the angiogenesis process," Cancer Res., 59:2417-2424.	
/L.C./	71	Raffray, M. and Cohen, G.M., 1997, "Apoptosis and necrosis in toxicology: a continuum or distinct modes of cell death?" Pharmacol. Ther., 75:153-177.	
/L.C./	72	Reed, J.C., 1995, "Regulation of apoptosis by bcl-2 family proteins and its role in cancer and drug resistance," Curr. Opin. Oncol., 7:541-546.	

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/L.C./	73	Roy, N., Dveraux, Q.L., Takahashi, R., Salvesen, G.S. and Reed, J.C., 1997, "The c-IAP-1 and c-IAP-2 proteins are direct inhibitors of specific caspases," EMBO J., 16:6914-6925.	
/L.C./	74	Sausville, E.A. and Feigal, E., 1999, "Evolving approaches to cancer drug discovery and development at the National Cancer Institute," USA Ann. Oncol., 10:1287-1291.	
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		Filing Date	March 14, 2005
		First Named Inventor	Daniel S. MARTIN
		Art Unit	1623
		Examiner Name	Lawrence E. Crane
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/L.C./	83	Staunton, M.J. and Gaffney, E.F., 1998, "Apoptosis: basic concepts and potential significance in human cancer," Arch. Pathol. Lab. Med., 122:310-319.	
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/L.C./	86	Street, J.C., Mahmoud, V., Ballon, D., Alfieri, A.A., and Koutcher, J.A., 1996, "13C and 31p NMR investigation of effect of 6-aminonicotinamide on metabolism of RIF-1 tumor cells in vitro," J. Biol. Chem., 271:4113-4119.	
/L.C./	87	Street, J.C., Alfieri, A.A., and Koutcher, J.A., 1997, "Quantitation of metabolic and radiobiological effects of 6-aminonicotinamide in RIF-1 tumor cells in vitro," Cancer Res., 57:3956-3962.	
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/L.C./	90	Tian, W-N., Braunstein, L.D., Apse, K., Pang, J., Rose, M., Tian, X. and Stanton, R.C., 1998, "Importance of Glucose-6-phosphate dehydrogenase activity for cell growth," J. Biol. Chem., 273:10609-10617.	
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/L.C./	93	Warnick, C.T., and Patterson, A.R.P., 1973, "Effect of methylthioinosine on nucleoside concentration in L5158 cells," Cancer Res., 33:1711-1715.	
/L.C./	94	Wielinga, P.R., Reid, G., Challa, E.E., van der Heijden, I., van Deemter, L., De Haas, M., Mol, C., Kuil, A.J., Groeneveld, E., Schuetz, J.D., Brouwer, C., De Abreu, R.A., Wijnholds, J., Beijnen, J.H. and Borst, P., 2002, "Thiopurine metabolism and identification of the Thiopurine metabolites transported by MRP4 and MRP5 overexpressed in human embryonic kidney cells," Mol. Pharm., 62:1321-1331.	
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/L.C./	96	Woods, R.A., Henderson, R.M., and Henderson, J.F., 1978, "Consequences of inhibition of purine biosynthesis de novo by 6-methylmercaptopurine ribonucleoside in cultured lymphoma L5178 cells," Euro. J. Cancer, 14:765-70.	
/L.C./	97	Wyllie, A.H., 1993, "Apoptosis [The 1992 Frank Rose Memorial Lecture]," Br. J. Cancer., 67:205-208.	
/L.C./	98	Xiang, J., Chao, T. and Korsmyer, S.J., 1996, "Bax-induced cell death may not require interleukin 1-converting enzyme-like proteases," Proc. Natl. Acad. Sci. USA, 93:14359-14563.	
/L.C./	99	Yoshida, H., Kong, Y.Y., Yoshida, R., Elia, A.J., Hakem, R., Penninger, J.M. and Mak, T.W., 1998, "Apaf-1 is required for mitochondrial pathways of apoptosis and brain development," Cell, 94:739-750.	
/L.C./	100	Young, I., Young, G.L., Wiley, J.S. and van der Weyden, M.B., 1985, "Nucleoside transport and cytosine arabinoside (ara C) metabolism in human T lymphoblasts resistant to ara C, thymidine and 6-methymercaptopurine riboside," Eur. J. Cancer Clin. Oncol., 21(9):1077-1082.	
/L.C./	101	Zamzami, N., Susin, S.A., Marchetti, P., Hirsch, T., Gomez-Monterrey, I., Castedo, M., and Kroemer, G., 1996, "Mitochondrial control of nuclear apoptosis (see comments)," J. Exp. Med., 183:1533-44.	
/L.C./	102	Zou, H., Li, Y., Liu, X., and Wang, X., 1999, "An apaf-1-cytochrome c multimeric complex is a functional apoptosome that activates procaspase-9," J. Biol. Chem., 274:11549-11556.	

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/L.C./	103	European Communication for SLOAN-KETTERING INSTITUTE FOR CANCER RESEARCH, European Application No. 01986104.6 (Atty. Dkt. #636-A-PCT-EPO), Filed July 2, 2003, Dated September 6, 2007.	
/L.C./	104	U.S. Office Action for MARTIN et al., U.S. Serial No. 10/172,346 (Atty. Dkt. #636-B), Filed June 13, 2002, Dated November 19, 2003.	
/L.C./	105	U.S. Office Action for MARTIN et al., U.S. Serial No. 10/172,346 (Atty. Dkt. #636-B), Filed June 13, 2002, Dated June 15, 2005.	
/L.C./	106	U.S. Office Action for MARTIN et al., U.S. Serial No. 10/172,346 (Atty. Dkt. #636-B), Filed June 13, 2002, Dated June 15, 2006.	
/L.C./	107	Notice of Allowance and Fee(s) Due and Notice of Allowability, for MARTIN et al., U.S. Serial No. 10/172,346 (Atty. Dkt. #636-B), Filed June 13, 2002, Dated August 20, 2007.	
/L.C./	108	NIH R01 Grant Information for 1R01CA098505—1A3, PI Jason Koutcher, Project Title "Cytocidal Therapy In Vivo for Drug-Resistant Tumors," previously submitted for U.S. Serial No. 10/172,346 (Atty. Dkt. #636-B).	
/L.C./	109	National Cancer Institute RAID Grant Information, PI Maiyer Rizvi, previously submitted for U.S. Serial No. 10/172,346 (Atty. Dkt. #636-B).	

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